

azur

550T

 *Cambridge Audio*

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Introduction

Thank you for purchasing this Cambridge Audio Azur 550T. We're confident that you will enjoy many years of listening pleasure from it.

The 550T is a newly-developed FM/AM tuner to compliment complement the Cambridge Audio Azur range and incorporates sophisticated Alarm and Sleep timer functions that can turn on and off connected Cambridge Audio amplifiers fitted with Control Bus inputs/outputs and select the Tuner input for the Alarm function.

A specific version of the Azur Navigator remote is provided, giving full remote control of the tuner functions in an attractive and easy to use handset.

The 550T can only be as good as the system it's is connected to. Please do not compromise on your amplifier, speakers or cabling. Naturally we particularly recommend models from the Cambridge Audio Azur range which have been designed to the same exacting standards as this tuner. Your dealer can also supply excellent quality Cambridge Audio interconnects to ensure your system realises its full potential.

The use of an external FM/AM aerial is also strongly recommended to get the best from your 550T.

Thank you for taking the time to read this manual; we recommend you keep it for future reference.



Matthew Bramble
Cambridge Audio Technical Director
and the 550T design team

For further information about Cambridge Audio, our products, news, reviews and support, please visit www.cambridge-audio.com

Visit www.cambridge-audio.com and register to receive notification of future hardware and software releases.


This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice. If you notice any errors please feel free to email us at: support@cambridge-audio.com

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Important safety instructions

For your own safety please read the following important safety instructions carefully before attempting to connect this unit to the mains power supply. They will also enable you to get the best performance from and prolong the life of the unit:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use with only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug having been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

- To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

The unit is of Class 1 construction and must be connected to a mains socket outlet with a protective earthing connection.

The unit must be installed in a manner that makes disconnection of the mains plug from the mains socket outlet (or appliance connector from the rear of the unit) possible. Where the mains plug is used as the disconnect device, the disconnect device shall remain readily operable. Only use the mains cord supplied with this unit.

Please ensure there is ample ventilation (at least 10cm clearance all round). Do not put any objects on top of this unit. Do not situate it on a rug or other soft surface and do not obstruct any air inlets or outlet grilles. Do not cover the ventilation grilles with items such as newspapers, tablecloths, curtains, etc.

This unit must not be used near water or exposed to dripping or splashing water or other liquids. No objects filled with liquid, such as vases, shall be placed on the unit.



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the service literature relevant to this appliance.



WEEE symbol

The crossed-out wheeled bin is the European Union symbol for indicating separate collection for electrical and electronic equipment. This product contains electrical and electronic equipment which should be reused, recycled or recovered and should not be disposed of with unsorted regular waste. Please return the unit or contact the authorised dealer from whom you purchased this product for more information.



CE mark

This product complies with European Low Voltage (2006/95/EC) and Electromagnetic Compatibility (2004/108/EC) Directives when used and installed according to this instruction manual. For continued compliance only Cambridge Audio accessories should be used with this product and servicing must be referred to qualified service personnel.



C-Tick mark

This product meets the Australian Communications Authority's Radio communications and EMC requirements.



Ross Test Stamp

This product meets Russian electronic safety approvals.

FCC regulations

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Ventilation

IMPORTANT - The unit will become hot when in use. Do not stack multiple units on top of each other. Do not place in an enclosed area such as a bookcase or in a cabinet without sufficient ventilation.

Ensure that small objects do not fall through any ventilation grille. If this happens, switch off immediately, disconnect from the mains supply and contact your dealer for advice.

Positioning

Choose the installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. No naked flame sources, such as lighted candles, should be placed on the unit. Also avoid locations subject to vibration and excessive dust, cold or moisture. The unit can be used in a moderate climate.

This unit must be installed on a sturdy, level surface. Do not place in a sealed area such as a bookcase or in a cabinet. Do not place the unit on an unstable surface or shelf. The unit may fall, causing serious injury to a child or adult as well as serious damage to the product. Do not place other equipment on top of the unit.

Due to stray magnetic fields turntables or CRT TVs should not be located nearby due to possible interference.

Electronic audio components have a running in period of around a week (if used several hours per day). This will allow the new components to settle down, the sonic properties will improve over this time.

Power sources

The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power-supply to your home, consult your product dealer or local power company.

This unit has been designed to be left in Standby mode when not in use, this will increase the life of the unit (this is true with all electronic equipment). To turn the unit off, unplug it from the mains socket.

Overloading

Do not overload wall outlets or extension cord as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard.

Be sure to insert each power cord securely. To prevent hum and noise, do not bundle the interconnect leads with the power cord or speaker leads.

Cleaning

To clean the unit, wipe its case with a dry, lint-free cloth. Do not use any cleaning fluids containing alcohol, ammonia or abrasives. Do not spray an aerosol at or near the unit.

Battery disposal

Please dispose of any discharged batteries according to local environmental/electronic waste disposal guidelines.

Loudspeakers

Before making any connections to loudspeakers, make sure all power is turned off and only use suitable interconnects.

Servicing

These units are not user serviceable, never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem. A serious electric shock could result if this precautionary measure is ignored. In the event of a problem or failure, please contact your dealer.

Limited warranty

Cambridge Audio warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). Cambridge Audio will repair or replace (at Cambridge Audio's option) this product or any defective parts in this product. Warranty periods may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the Cambridge Audio authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Cambridge Audio product, it can be returned by your dealer to Cambridge Audio or an authorised Cambridge Audio service agent. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Cambridge Audio authorised dealer. You may call Cambridge Audio or your local country Cambridge Audio distributor to confirm that you have an unaltered serial number and/or you purchased from a Cambridge Audio authorised dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Cambridge Audio or a Cambridge Audio dealer, or authorised service agent which is authorised to do Cambridge Audio warranty work. Any unauthorised repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

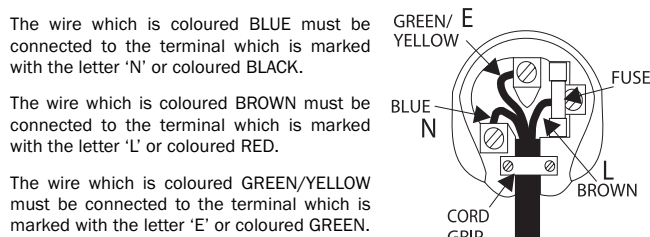
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Some countries and US states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other statutory rights, which vary from state to state or country to country.

For any service, in or out of warranty, please contact your dealer.

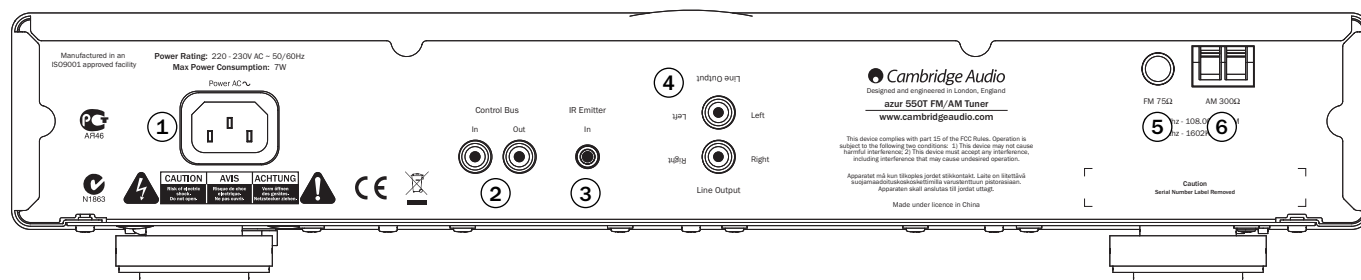
Plug Fitting Instructions (UK Only)

The cord supplied with this appliance is factory fitted with a UK mains plug fitted with a 13 amp fuse inside. If it is necessary to change the fuse, it is important that a 13 amp one is used. If the plug needs to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug must then be disposed of safely, as insertion into a mains socket is likely to cause an electrical hazard. Should it be necessary to fit a 3-pin BS mains plug to the power cord the wires should be fitted as shown in this diagram. The colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:



If a standard 13 amp (BS 1363) plug is used, a 13 amp fuse must be fitted, or if any other type of plug is used a 5 amp fuse must be fitted, either in the plug or adaptor, or on the distribution board.

Rear panel connections



① AC power socket

Once all connections have been made, plug the AC power cable into an appropriate mains socket. Your 550T is now ready for use.

② Control Bus

The Control Bus carries control information, in the form of demodulated remote control signals, between the tuner and other Cambridge Audio devices connected to it. The 550T will respond to appropriate commands, as well as generating specific amplifier On/Off commands according to the tuner's Alarm and Sleep functions.

③ IR (Infra-Red) Emitter In

Allows modulated IR commands from multi-room systems or IR repeater systems to be received by the unit. Commands received here are not looped out of the Control Bus. Refer to the 'Custom installation' section for more information.

④ Line Output

Connect to your amplifier using good quality RCA/phono cables.

⑤ FM Aerial

Connect an aerial to the FM 75 ohm socket (a simple wire aerial is supplied only for temporary use). Extend the lead and move the aerial around until you get the best reception.

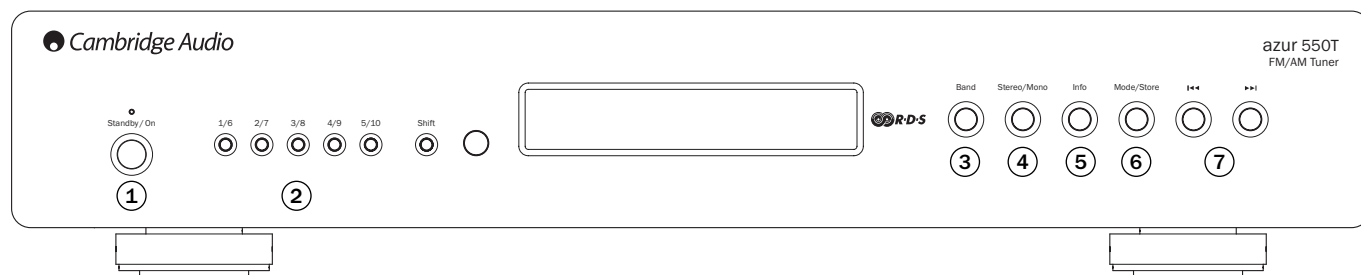
For continued use, we strongly recommend using a 75ohm outdoor FM aerial.

⑥ AM Loop Aerial

Connect each end of the single length antenna to the antenna terminals. Place the antenna as far from the main system as possible to prevent unwanted noise and to obtain optimum reception.

If the AM loop aerial provided does not receive sufficient reception, it may be necessary to use an outdoor AM aerial.

Front panel controls



① Standby/On

Switches the 550T between a low power Standby mode and On. When in Standby the front panel display shows the current time in hours and minutes, as well as the date if RDS clock mode is enabled.

② Presets

The 550T can store up to 20 Presets for each of the FM and AM bands. The Shift button alternates the 5 buttons between accessing Presets 1-5 and 6-10. To access Presets 11-20, hold down the Shift button. The display will show which choice has been made.

③ Band

This button switches between the FM and AM bands.

④ Stereo/Mono

Press this button to alternate between Stereo and Mono mode when listening to FM broadcasts.

⑤ Info

Allows the user to select and view different information on the display. When listening to the FM band, the display modes are Radiotext, RDS Program Type, Signal Strength, Time, Stereo/Mono mode, and Info Off. In AM mode, the user can see the Signal Strength and Time. RDS information on the FM band is dependant on signal strength.

⑥ Store/Mode

Press once to toggle the functionality of the ◀ ▶ buttons between Scan and Preset modes. Press and hold the button to store the current station (the display will show the next free preset number). Use the ◀ ▶ buttons to increase/decrease the preset number, then press the Mode/Store button to confirm the selection.

⑦ ◀ ▶

Adjusts the tuner frequency when in Scan mode (the default setting). Holding either button down will search for the next station. When in Preset mode, the user can step through each of the stored Presets.

Operating instructions

Tuning and listening to the 550T

1. Press the Standby/On button on the front panel.
2. Select FM or AM by pushing the FM/AM button on front panel or remote control.
3. Press the ◀ ▶ buttons to manually select the desired frequency, or hold either button down to search for a station.

Setting presets

Select the station you wish to store. Press and hold the Mode/Store button, then use ◀ ▶ to select the slot where the station will be stored. Press Mode/Store again to save it.

How to select preset stations

1. Press the Standby/On button on the front panel.
2. Select FM or AM by pushing the FM/AM button on front panel or remote control.
3. Press chosen preset button to listen to the corresponding station. Alternatively, press the Mode/Store button to enable Preset mode, then use the ◀ ▶ buttons to cycle through the stored stations.

Setting the clock

The user can either allow RDS transmissions to automatically set the Clock Time/Date, or the Clock can be set manually. To change the Clock mode, press and hold the Clock button on the remote control. Use the ◀ ▶ buttons on the remote to change mode between RDS and Manual. Press the Alarm button again to confirm your choice. If Manual mode is selected, you can then set the time. Firstly, adjust the hour using the ◀ ▶ buttons. When that is done, press Clock again to adjust the minutes. Press Clock again to finish.

Setting the alarm time

The Alarm function will turn on the 550T at a chosen time. It will also generate a command on the control bus that, when connected, will turn on a Cambridge Audio Azur series amplifier and select the tuner input.

To set the Alarm time:

1. Press Alarm/Clock on your remote handset.
2. Use ◀ ▶ buttons to select if the alarm should be off, just work once, or every day.
3. Press Clock.
4. Press ◀ ▶ keys to alter the hour
5. Press Clock.
6. Press ◀ ▶ keys to alter the minute
7. Press Clock to finish.

Setting the sleep time

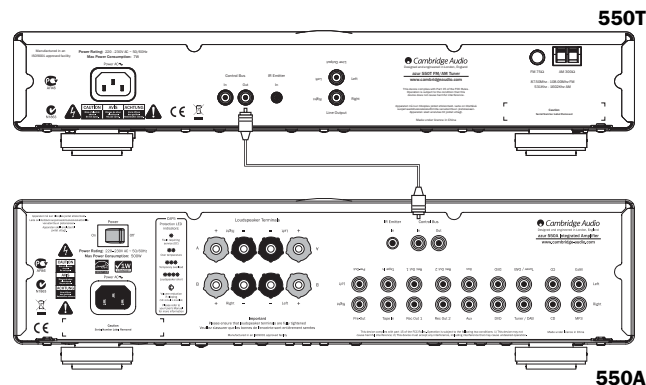
The Sleep function will turn off the 550T at a chosen time. It will also generate a command on the Control Bus that, when connected, will turn off a compatible Cambridge Audio Azur series amplifier.

To set the Sleep time:

1. Press and hold Alarm/Clock and then press Standby on your remote handset.
2. Press the ◀ ▶ keys to alter the hour
3. Press Clock.
4. Press the ◀ ▶ keys to alter the minute
5. Press Clock to finish.

Connecting the Control Bus

If it is desired to control a Cambridge Audio Azur amplifier by the 550T's Alarm or Sleep timers, connect the two units via the orange Control Bus sockets using the supplied orange RCA/phono lead as shown below:



Custom installation (C.I.) use

The 550T features a Control Bus input/output that allow un-modulated remote control commands (positive logic, TTL level) to be received electrically by the unit and looped to another unit if desired. These control commands are typically generated by custom installation (multi-room) systems or remote IR receiver systems. The Control Bus sockets are colour-coded orange.

An IR Emitter Input is also provided that allows modulated IR remote control commands to be received electrically by the unit. Commands on this input operate the unit only and are not looped out demodulated on the Control Bus Output.

In addition the unit features direct IR/Control codes as well as toggle codes for many of its features to simplify programming custom installation systems. Special direct commands can be accessed on the supplied remote control for teaching into C.I. systems as follows:

Specific power on/off commands – press and hold the Standby button. The remote first generates it's usual amp and tuner standby (toggle) commands (both are sent). Keep the button held down, after 12 seconds an Amp On command will be generated, then if the button is kept held down after a further 12 seconds an Amp off command is generated, then separated by 12 second pauses, Tuner On, and finally Tuner Off.

Specific band selection commands – press and hold the FM/AM key. The usual band toggle command is first, then the FM Mode command, followed by the AM Mode command is generated.

Specific Preset/Scan mode commands – Press and hold the Mode key. The usual mode toggle command is first, then the Scan Mode command, followed by the Preset Mode command.

Specific Mute On/Off commands – press and hold the Mute key. The usual mute toggle command is first, followed by the Mute On command, and then the Mute Off command.

A full code table for this product is available on the Cambridge Audio website at www.cambridge-audio.com.

Remote control

The 550T is supplied with a system remote control that operates both this tuner and Cambridge Azur amplifiers.

Power

Switches the 550T between On and Standby mode. The blue LED on the front panel of the 550T indicates that it is On when bright and in Standby mode when dim.



1–10 keys

These allow access to any stored presets you might have saved in the 550T.

10 + key

Allows access to preset stations 11-20.

Store

To store a preset with the remote press Store then use the   buttons to select the desired preset location. Press store again to confirm.



FM/AM

This button switches between the FM and AM bands that the 550T is capable of receiving.

Tuning

For use with Tuning, Alarm and Clock settings.

Mode

Toggles between Scan and Preset modes, thereby changing the functionality of the   buttons.

Clock

This button is used to access the Alarm menu as discussed in the Operation Instructions section of this manual.

(Info)

Switches between the Display modes described in the Front Panel Controls section. The RDS information on the FM band is dependant on the strength of the signal.

Bright

Alters the brightness of the display backlight. There are three levels of brightness: Bright, Normal, and Off.

Please note that the following buttons will only operate a matching Cambridge Audio azur amplifier:

Volume

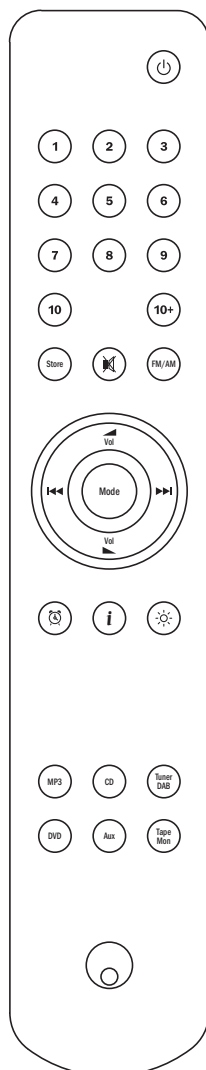
Volume buttons to increase or decrease the Volume of the amplifier output.

Source select

The five Source Select buttons and the Tape Monitor Select button are used to change the input source (CD, DVD etc).

Mute

This button mutes the audio on the amplifier. The Mute mode is indicated by the channel LED flashing.



Technical specifications

Frequency Range	FM (87.5–108MHz) Europe FM (88–108MHz) US AM (531–1602kHz) Europe AM (530–1710kHz) US
Aerial Inputs	75 ohms unbalanced (FM) 50 ohms unbalanced (AM)
FM Sensitivity	-25dBm typical
Signal to Noise	50dB typical (FM) 47dB typical (AM)
FM Frequency Response (±3dB)	20Hz - 15KHz
Distortion	<0.3%, @ 1KHz, 50KHz deviation (FM) <0.9%, @ 1KHz (AM)
Stereo Separation @ 1KHz	>50dB (FM)
Maximum Power Consumption	7W
Standby Power Consumption	6.5W
Dimensions – H x W x D	70 x 430 x 305mm (2.75 x 17 x 12")
Weight	4.10kg (9 lbs)

Troubleshooting

There is no power

- Ensure the AC power cord is connected securely.
- Ensure the plug is fully inserted into the wall socket and is switched on.
- Check fuse in the mains plug or adaptor.

There is no sound

- Ensure that the amplifier is set correctly.
- Check that the interconnects are inserted correctly.
- The aerials are incorrectly connected.

The sound is distorted or garbled

- Check aerial connections and placements.

There is a hum coming from the speaker

- Ensure that all cable connections are secure.

There is unwanted background noise and interference

- Move the tuner away from other electrical equipment that is likely to cause interference.

The remote handset will not function

- Check that the batteries have not expired.
- Ensure that nothing is blocking the remote sensor.

Cambridge Audio is a brand of Audio Partnership Plc
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www.cambridge-audio.com

